

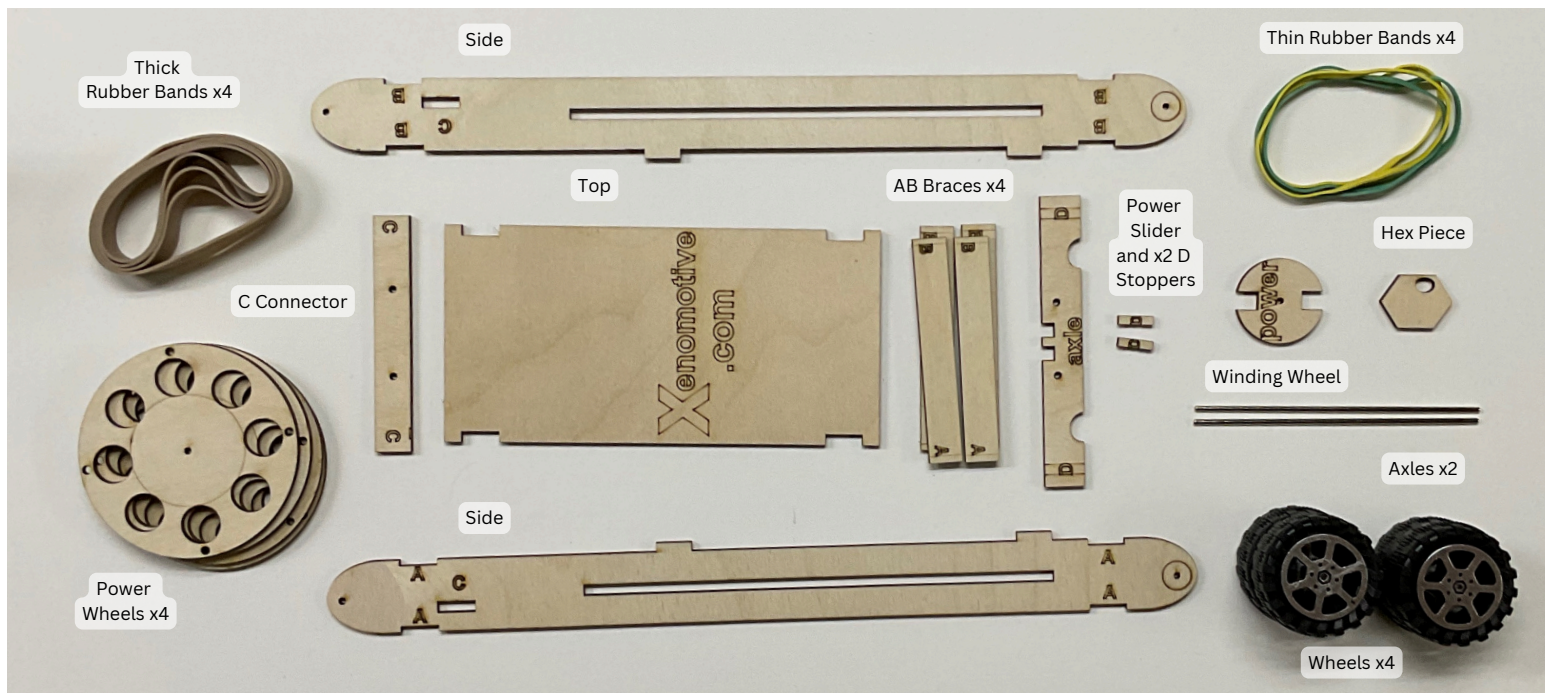
## Racer Instructions

## Xenomotive.com Science Explorer Kit

Read or watch instructions completely before beginning.

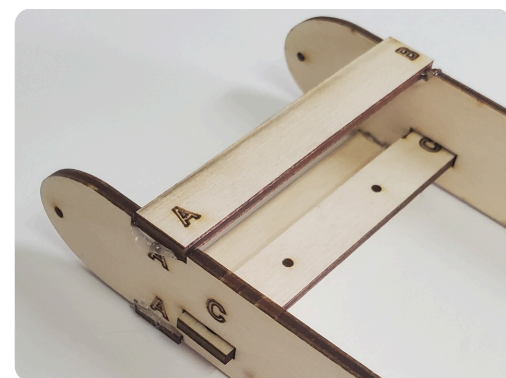
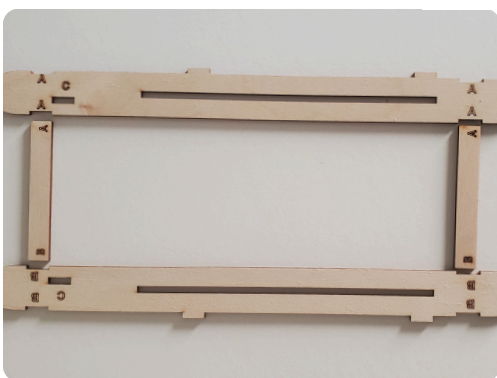
Remember: after connecting pieces with hot glue, hold the parts together for 30 seconds.

Once you have built your racer, you can experiment with using the optional parts included in the kit! Add the top and set small objects on it, wrap the thick rubber bands around the power wheels to act as tires, or experiment with using an additional rubber band to connect the front and back axles to simulate all-wheel drive.



1) Check that you have all the parts and lay them out on your work surface. If you have any missing parts, contact [xenomotive@gmail.com](mailto:xenomotive@gmail.com) for replacements.

\*Note that in addition to the parts included in the kit, you'll need a hot glue gun and some glue.



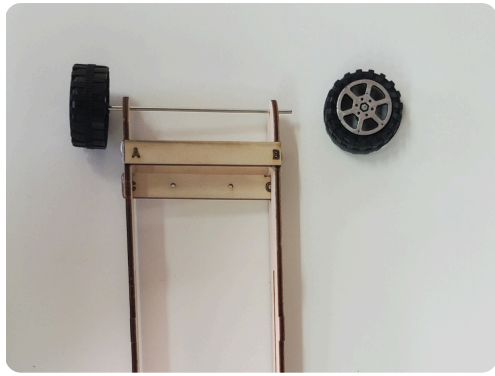
2) Place 2 sides and 2 AB braces on a table with the letters facing up. Insert the braces into the bottom notches on side A, matching the letters on the braces with the letters on the bottom notches. Glue in place.

3) Repeat with side B. Repeat with the upper braces - attaching the letters on the braces with the letters on the sides. Remember to hold the pieces together for 30 seconds when gluing.

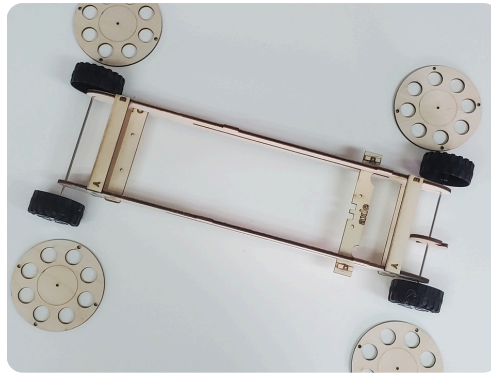
4) Put C Connector through the C slot in side A and push it across to the C slot in side B. Glue it in place. Remember to hold the pieces together for 30 seconds while gluing.

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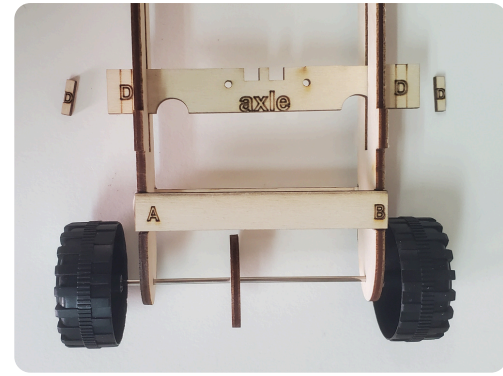




5) Put an axle in a wheel. Slide the axle through the axle hole in side A, on the same end of the racer as the C connector, then through the axle hole in side B. Add a wheel on the other side of the axle.



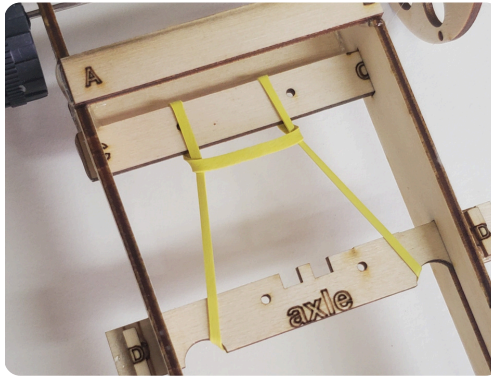
6) On other side, slide the axle through the circled axle hole in side A, then through the center hole in the winding wheel, and finally through the axle hole in side B. Glue power wheels to the plastic wheels if desired.



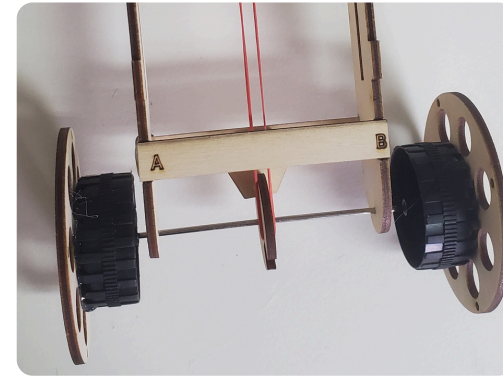
7) Put the power slider in the power slot with the "axle" side toward the winding wheel.



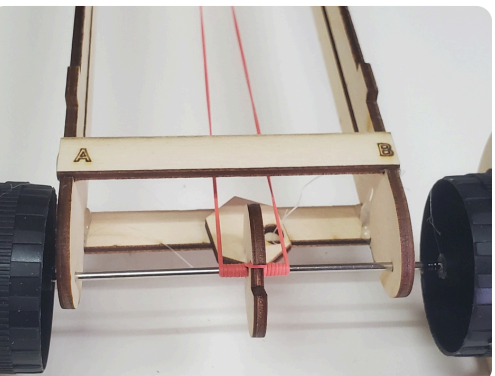
8) Glue the stoppers (small blocks labeled "D") onto the areas labeled "D" on the power slider.



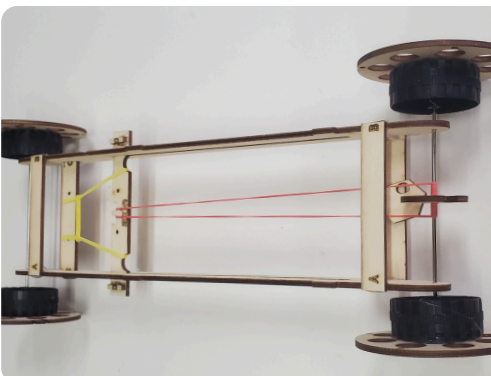
9) Put a thin rubber band around the C connector, then into the rounded notches in the power slider.



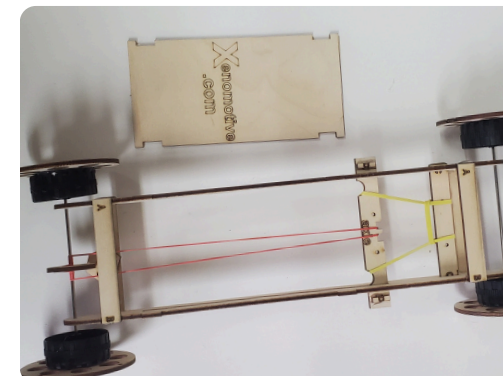
10) Place a second thin rubber band in the teeth in the power slider. Pull to the winding axle and attach to either slot in the winding wheel.



11) Rotate the wheel in the opposite direction of the way you want your racer to go. Once your rubber band is stretched, hold the winding wheel to keep the axle from turning. You can use the hex piece for this.



12) Put the racer on the floor. Release the winding wheel and watch your racer zoom away!



Optional - Tie a 3 foot string to the hex piece using the hole in it. Follow steps 9 - 11, using the hex piece to hold the winding wheel in place. When you are ready to go, pull the string.

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